



U.S. Environmental Protection Agency
July 30, 2003

STORET Import Module (SIM)

Web Version

**User Guide and
Reference Manual**

Table of Contents

<u>Section</u>	<u>Page</u>
Introducing SIM.....	1
Using This Guide	1
Formatting Your Data	2
Lesson I. Defining an Import Configuration.....	3
Lesson II. Using SIM to Migrate Data to STORET	15
Lesson III. Advanced Functions	18
Appendix A: Listing of Available STORET Data Elements for Each File Type.....	27

Introducing SIM

The STORET Import Module (SIM) is a Web program that helps users load data into STORET, an EPA-maintained database of ambient environmental data. STORET is a distributed system that allows individual agencies to manage their own data at a local level and to share their data with others via a national data warehouse.

To use SIM, you must perform the following tasks:

- Organize your data into delimited text files
- Establish SIM import configurations that describe the format of your text files
- Import your text files into SIM and migrate the data that pass validation into STORET.

This user guide and reference manual will

- Guide you in creating your delimited text files
- Teach you how to create a SIM import configuration
- Walk you through the process of using SIM to load data into STORET.

Note: To use SIM successfully, you need a clear understanding of STORET. Before you begin to use SIM, you should use the STORET Web Registration Application to establish all relevant metadata defaults in STORET.

Using This Guide

This guide is designed to provide you with “hands on” instruction for using SIM. Each lesson focuses on different functions included in SIM, describes the functions and associated concepts, and provides step-by-step instructions for using the tools. The step-by-step instructions are called out in shadow boxes, which are separate from the text (see box below).

1. This is an example of a box that contains instructions for using the guide with the sample data.

For assistance, contact the Central Data Exchange (CDX) Help Desk at

- EPACDX@CSC.COM
- 888-890-1995

Formatting Your Data

Before using SIM, you must organize your data into delimited text files (ASCII flat files). Most organizations use common software products, such as Excel, Access, or Lotus 1-2-3, to create data tables that can be saved and exported as delimited text files. Larger organizations may produce these files as exports from existing data management or laboratory information management systems (LIMS). SIM accepts two different file types:

1. Station Descriptions—Locations where field measurements are made or samples are collected
2. Field Measurements and Samples—Results of field measurements or sample analyses.

The data in the two file types complement each other and the order in which you migrate data files to STORET is important. Station descriptions should always be loaded before field measurements and samples. This ensures that the key data elements will be registered in STORET and are ready for results to be associated with them.

For ASCII flat files, the data elements or fields in each file type are organized in a tabular format where the column delimiter is a tab (), pipe (|), tilde (~), or comma (,).¹ Additionally, a subdelimiter (\) is available for columns that can accept multiple values.² The required and optional elements for each file type are described in Appendix A. Many of these data elements have a list of valid values that you must select from. The order in which you place the data elements in your delimited text files is not important because SIM allows you to define the order before you import your file.

Note: Do not include a header row in the delimited text files that you create, and do not use text qualifiers for text values (e.g., “”), because header rows and text qualifiers can result in errors in your import files.

¹ If any of these characters appear in your data, you should not use that character as a delimiter because there is no way for SIM to tell which is the delimiter and which is simply part of the data.

² Certain fields, such as Project ID in the “Field Measurements and Non-Biological Samples” section, can accept multiple values in a single column and row of the import file. See Appendix A for a list of columns that support loading multiple values.

Lesson I. Defining an Import Configuration


The following lesson will show you how to create a custom import configuration that will describe the format of your text files.

1. First, log in to CDX and access “MyCDX” from <http://cdx.epa.gov/warning.asp>. Read the warning notice and privacy statement and click the link at the bottom of the page to advance.

Next, click the link for users who already have a CDX ID and password (the second choice in the bulleted list). Enter your CDX ID and password and click **LOGIN**. This will give you access to the MyCDX page. You should have access to the monitoring role to transmit beach monitoring data. If monitoring is not an option under the MyCDX Profiles, call the CDX Help Desk. Click on **eBEACHES: Monitoring** near the bottom of the page.

Central Data Exchange - MyCDX			
Welcome, Ms. Dana Lawrence		Last Login: Registered Since: Recertification Date:	July 8, 2003 March 17, 2003 March 17, 2003
CDX Registration Status: Active			
You have 0 new messages in your Inbox			
Change System Password	Edit Personal Information	Edit Current Account Profiles	Add New Employer Profile
Available Account Profiles: <ul style="list-style-type: none">• eBEACHES: Monitoring			

2. Click **Load, validate, and migrate your data** (item 4 near the bottom of the page).




About
MyCDX
Inbox
Change Password
Frequently Asked
Questions
Help & Support
CDX Home
Terms & Conditions
Logout

eBEACHES / Monitoring

U.S. Environmental Protection Agency

Logged in as, AAA.



What is CDX eBEACHES?

The CDX eBEACHES (electronic Beach Environmental Assessment and Coastal Health System) is a system that helps states submit Beach Locational, Monitoring and Notification Data to the EPA via CDX. These resources will assist you in meeting data reporting requirements under the BEACH Act Grants Program.

How will Beach Monitoring data be submitted?

Beach monitoring data (advisories and closings) can be submitted using the Central Data Exchange (CDX).

CDX is a single portal on the Web for environmental data entering EPA. It offers States, Territories, Tribes and other entities a faster, easier, more secure reporting option. CDX is EPA's point of entry on the National Environmental Information Exchange Network (NEIEN).

Can Notification data also be submitted using CDX?

Yes. While you may only be responsible for Monitoring data, another organization within your state or territory may be responsible for submitting Notification data. To submit Notification data, return to the "My CDX" page, and go to "Available Account Profiles", select "eBEACHES Notification", and follow the instructions.

This web site provides resources for submitting Beaches Monitoring data to the EPA. To change your STORET password, please [click here](#).

How can this tool be used?

The Beaches Monitoring Data Roadmap describes how to submit Beaches Notification data to the EPA. The Roadmap contains the following steps:

1. [Prepare the CDX Database](#) for your data by using the Web Registration application.
2. [Prepare your data](#) in the necessary format.
3. [Upload your data](#) to CDX.
4. [Load, validate and migrate your data](#) to the CDX Database using the WebSIM application.
5. [Check your MyCDX Inbox](#) for confirmation that your Beaches Monitoring Data submission to the EPA is complete.

3. Log on to SIM by clicking **WebSIM application**. On the page shown below, click **Log On to SIM** and enter the appropriate user name and password.

Welcome to the SIM v2i - STORET Interface Module Home Page


STORET is the Environmental Protection Agency's largest computerized data system. STORET is a repository for water quality, biological, and physical data used by federal and state agencies.

SIM v2i - STORET Interface Module is an application designed to load data into local instances of the STORET database. SIM parses data contained in a specially formatted text file, verifies the data is acceptable to STORET, and migrates the data to STORET.

SIM has become a valuable tool for many states throughout the United States as a migration tool for their water quality data.

[Log On to SIM](#)

4. From this screen, you can either start a new import of data or access an existing import that you may have brought into SIM but have yet to migrate to the STORET database. For this lesson, click **New Import**.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)

[Home](#)

[New Import](#)

Select this option to complete the following actions:

- 1) Configure the system to accept a new file for import.
- 2) Modify an existing import configuration.
- 3) Import a file using an existing configuration.

NOTE: If you are a new user of SIM, you should select this option to get started.

[Existing Import](#)

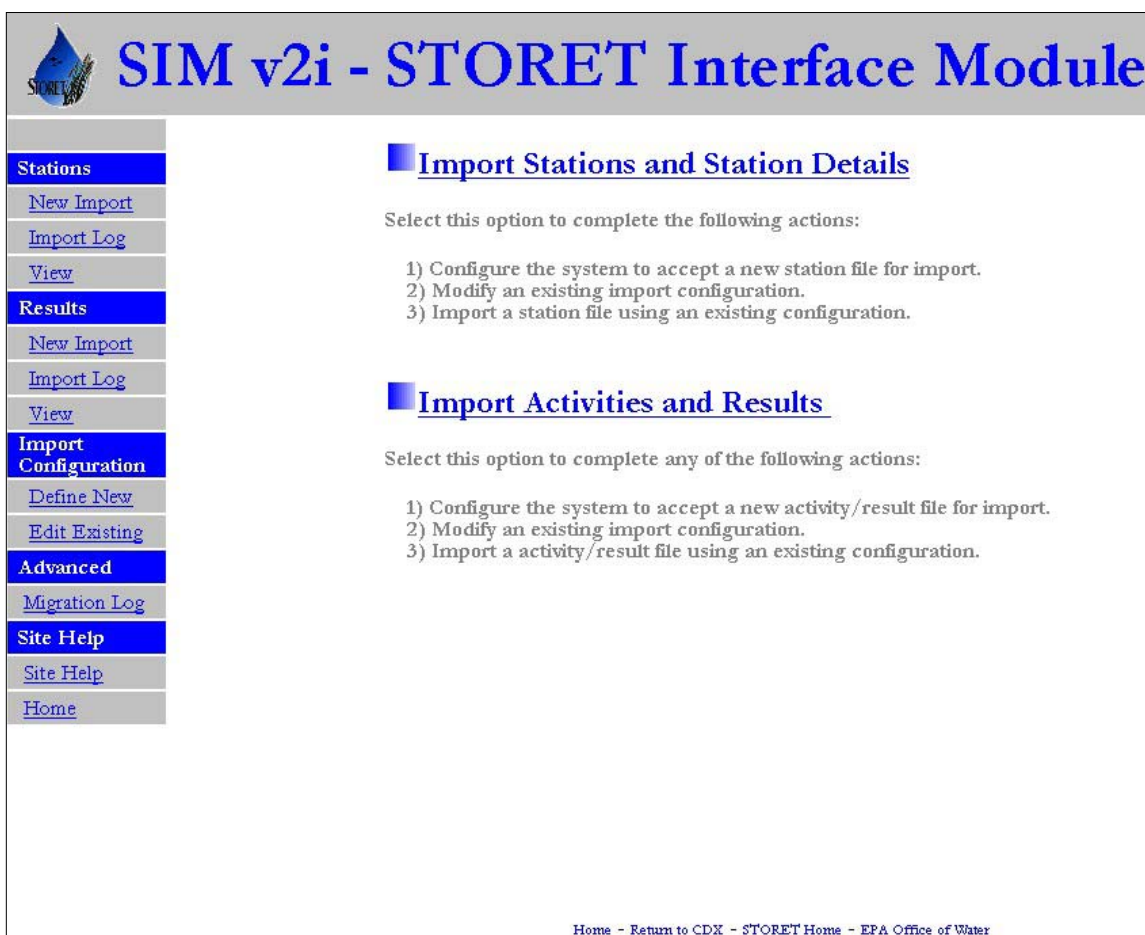
Select this option if you wish to complete any of the following actions:

- 1) View the import log for a file previously loaded into SIM.
- 2) Migrate a file from SIM to STORET.
- 3) Delete an import from SIM.

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

5. The next screen allows you to select the type of file that you wish to import into SIM.

Choose **Import Stations and Station Details**.



SIM v2i - STORET Interface Module

Stations
[New Import](#)
[Import Log](#)
[View](#)

Results
[New Import](#)
[Import Log](#)
[View](#)

Import Configuration
[Define New](#)
[Edit Existing](#)

Advanced
[Migration Log](#)

Site Help
[Site Help](#)
[Home](#)

Import Stations and Station Details

Select this option to complete the following actions:

- 1) Configure the system to accept a new station file for import.
- 2) Modify an existing import configuration.
- 3) Import a station file using an existing configuration.

Import Activities and Results

Select this option to complete any of the following actions:

- 1) Configure the system to accept a new activity/result file for import.
- 2) Modify an existing import configuration.
- 3) Import a activity/result file using an existing configuration.

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

6. This menu allows you to specify the import configuration and the path to the file that you want to import.

Click **Define New Configuration**.

SIM v2i - STORET Interface Module

Stations

- [New Import](#)
- [Import Log](#)
- [View](#)

Results

- [New Import](#)
- [Import Log](#)
- [View](#)

Import Configuration

- [Define New](#)
- [Edit Existing](#)

Advanced

- [Migration Log](#)

Site Help

- [Site Help](#)
- [Home](#)

Import Stations

Import Configuration

Text File Name

[Define New Configuration](#)

[Edit Existing Configuration](#)

Import File to SIM

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

7. This menu allows you to specify the type of file that you want to import, either an ASCII flat file or an XML file. (XML files can only be imported for results.)

Click **Define New Station Import Configuration** under “ASCII Flat File Import Configuration.”

SIM v2i - STORET Interface Module

Stations
[New Import](#)
[Import Log](#)
[View](#)

Results
[New Import](#)
[Import Log](#)
[View](#)

Import Configuration
[Define New](#)
[Edit Existing](#)

Advanced
[Migration Log](#)

Site Help
[Site Help](#)
[Home](#)

ASCII Flat File Import Configurations

[Define New Station Import Configuration](#)
Select this option to configure the system to accept a new Station file in ASCII flat file format.


[Define New Activity/Result Import Configuration](#)
Select this option to configure the system to accept a new Activity/Result file in ASCII flat file format.

XML Import Configurations

[Define New Activity/Result Import Configuration](#)
Select this option to configure the system to accept a new Activity/Result file in XML format.

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

8. From the “Flat File Import Configuration” menu, you can
 - Provide a name and description for the import configuration
 - Define the organization that the data will load into
 - Indicate the delimiter that will be used in the text file
 - Save the configuration
 - Set instructions to review translations and establish general import instructions
 - Select the data elements that will be included in the text file
 - Define the position or order in which the data elements will appear in the file
 - Establish default values for the data elements in the import file that are left null or blank
 - View the format that each row in the import file must adhere to if this configuration is used
 - Specify additional formatting for individual data elements (if appropriate)
 - Establish translation parameters that change values while a file is being imported.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)

[Home](#)

Import Configuration

Name

Type STATIONS Station load definition

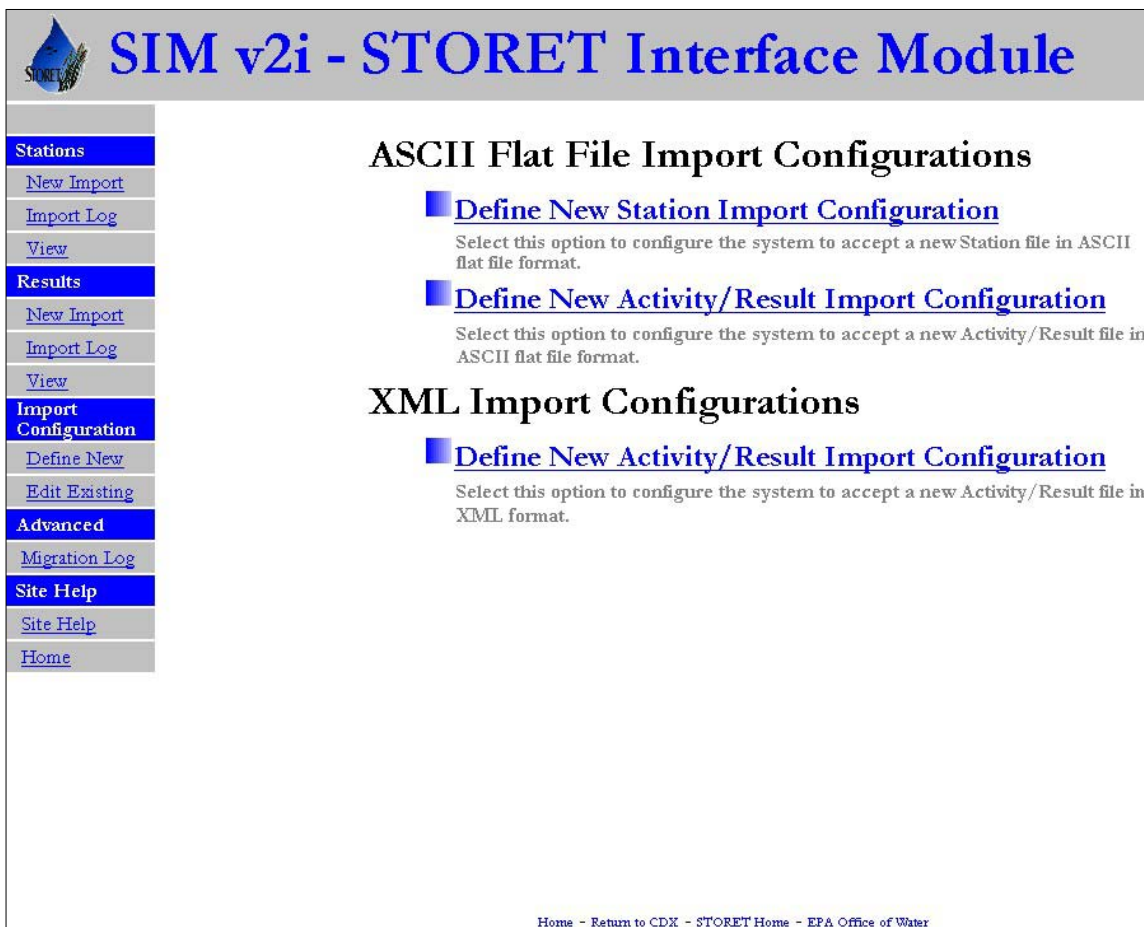
Description

Org ID Delimiter Pipe (|)

Column	Pos	Incl	Default	Max Len	Format Option	Format	
Station ID	1	<input checked="" type="checkbox"/>		15	Freetext		<input type="button" value="Translation"/>
Station Name	2	<input type="checkbox"/>		60	Freetext		<input type="button" value="Translation"/>
Primary Type	3	<input checked="" type="checkbox"/>		30	STORET Table		<input type="button" value="Translation"/>
Secondary Type	4	<input checked="" type="checkbox"/>		30	STORET Table		<input type="button" value="Translation"/>
Station Description	5	<input type="checkbox"/>		4000	Freetext		<input type="button" value="Translation"/>
Latitude	6	<input checked="" type="checkbox"/>		14	Defined Format	<input style="width: 50px;" type="text"/>	<input type="button" value="Translation"/>
Latitude Direction	7	<input type="checkbox"/>		1	Allowable Values		<input type="button" value="Translation"/>
Longitude	8	<input checked="" type="checkbox"/>		15	Defined Format	<input style="width: 50px;" type="text"/>	<input type="button" value="Translation"/>
Longitude Direction	9	<input type="checkbox"/>		1	Allowable Values		<input type="button" value="Translation"/>
Geopositioning Method	10	<input checked="" type="checkbox"/>		40	STORET Table		<input type="button" value="Translation"/>
Geopositioning Datum	11	<input checked="" type="checkbox"/>		30	STORET Table		<input type="button" value="Translation"/>
Scale	12	<input type="checkbox"/>		20	Freetext		<input type="button" value="Translation"/>
State	13	<input type="checkbox"/>		2	STORET Table		<input type="button" value="Translation"/>

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

Click the **Back** button in your Web browser.



SIM v2i - STORET Interface Module

Stations
[New Import](#)
[Import Log](#)
[View](#)

Results
[New Import](#)
[Import Log](#)
[View](#)

Import Configuration
[Define New](#)
[Edit Existing](#)

Advanced
[Migration Log](#)

Site Help
[Site Help](#)
[Home](#)

ASCII Flat File Import Configurations

Define New Station Import Configuration
Select this option to configure the system to accept a new Station file in ASCII flat file format.


Define New Activity/Result Import Configuration
Select this option to configure the system to accept a new Activity/Result file in ASCII flat file format.

XML Import Configurations

Define New Activity/Result Import Configuration
Select this option to configure the system to accept a new Activity/Result file in XML format.

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

If you choose **Define New Activity/Result Import Configuration** under “XML Import Configurations,” you can perform essentially the same functions as listed above for flat files. You do not, however, need to indicate the delimiter, because delimiters are not necessary for XML.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)

[Home](#)

XML Import Configuration

Name

Type Results Loaded using XML

Description

Org ID

[Save Configuration](#)

[Set Instructions](#)

Column	Default	
Trip ID	<input type="text"/>	Translation
Trip Start Date	<input type="text"/>	Translation
Trip Stop Date	<input type="text"/>	Translation
Trip Name	<input type="text"/>	Translation
Station Visit Number	<input type="text"/>	Translation
Station Visit Arrival Date	<input type="text"/>	Translation
Station ID	<input type="text"/>	Translation
Station Visit Conditions and Other Comments	<input type="text"/>	Translation
Activity ID	<input type="text"/>	Translation
Project ID	<input type="text"/>	Translation
Activity QC Indicator	<input type="text"/>	Translation

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

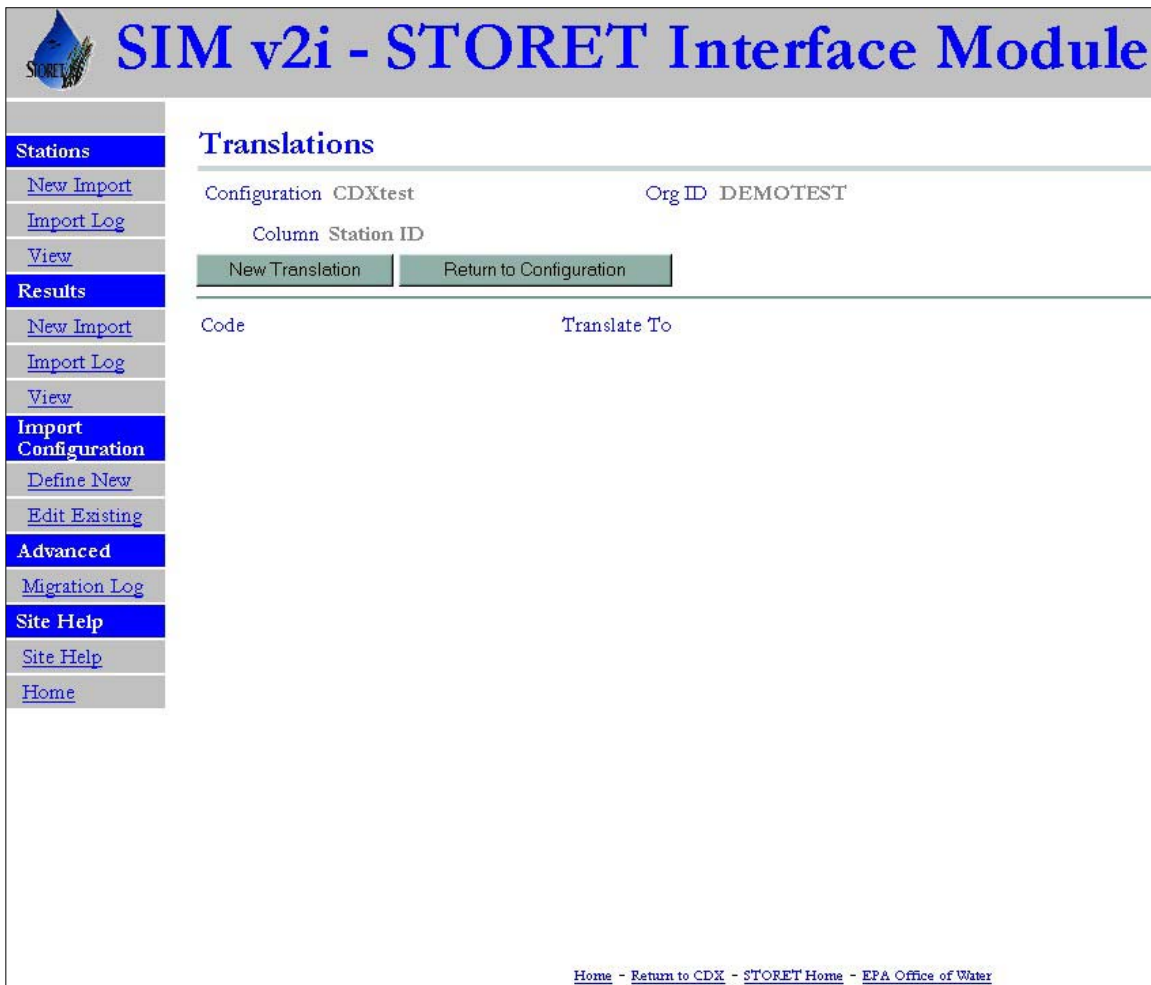
You can use a translation to convert a number or phrase in your current data to one that is accepted by STORET. If you wish to perform a translation after defining an import configuration, click the **Translate** button for the column you want to translate.

The main purpose of the XML import configuration is to set translations. You may want to establish translations to clarify your data. For example, if you have a characteristic in your data, “DO,” for dissolved oxygen, you may want to translate “DO” to “Dissolved Oxygen” through the import configuration.

(To set up your XML schema, review the example schema on your MyCDX page. From the MyCDX page, click **eBEACHES: Monitoring**. Next, choose item 2, **Prepare your data**, to see the example.)

Provide a name and your ORG ID and click **Save Configuration**. Now you can access the Translation feature.

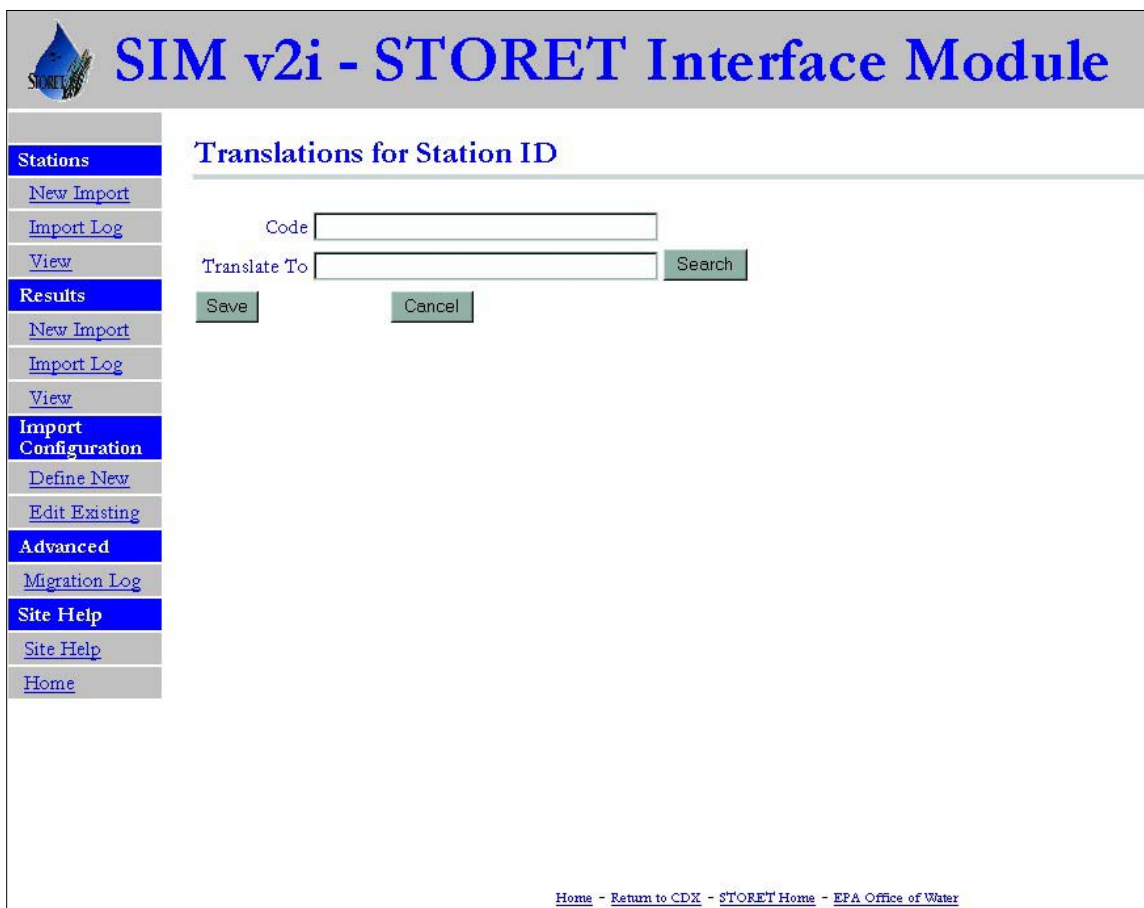
9. You can select **New Translation** or **Return to Configuration**. For this lesson, click **New Translation**.



The screenshot displays the 'SIM v2i - STORET Interface Module' web application. On the left is a vertical navigation menu with the following items: 'Stations' (highlighted), 'New Import', 'Import Log', 'View', 'Results' (highlighted), 'New Import', 'Import Log', 'View', 'Import Configuration' (highlighted), 'Define New', 'Edit Existing', 'Advanced' (highlighted), 'Migration Log', 'Site Help' (highlighted), 'Site Help', and 'Home'. The main content area is titled 'Translations' and shows a configuration for 'CDXtest' with 'Org ID DEMOTEST'. Below this, there are two buttons: 'New Translation' and 'Return to Configuration'. A table with two columns, 'Code' and 'Translate To', is present but empty. At the bottom right, a breadcrumb trail reads: 'Home - Return to CDX - STORET Home - EPA Office of Water'.

Code	Translate To
------	--------------

10. You can establish a translation by defining the “code” that should be translated and the value that it should be “translated to.” Click **Save**.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)

[Home](#)

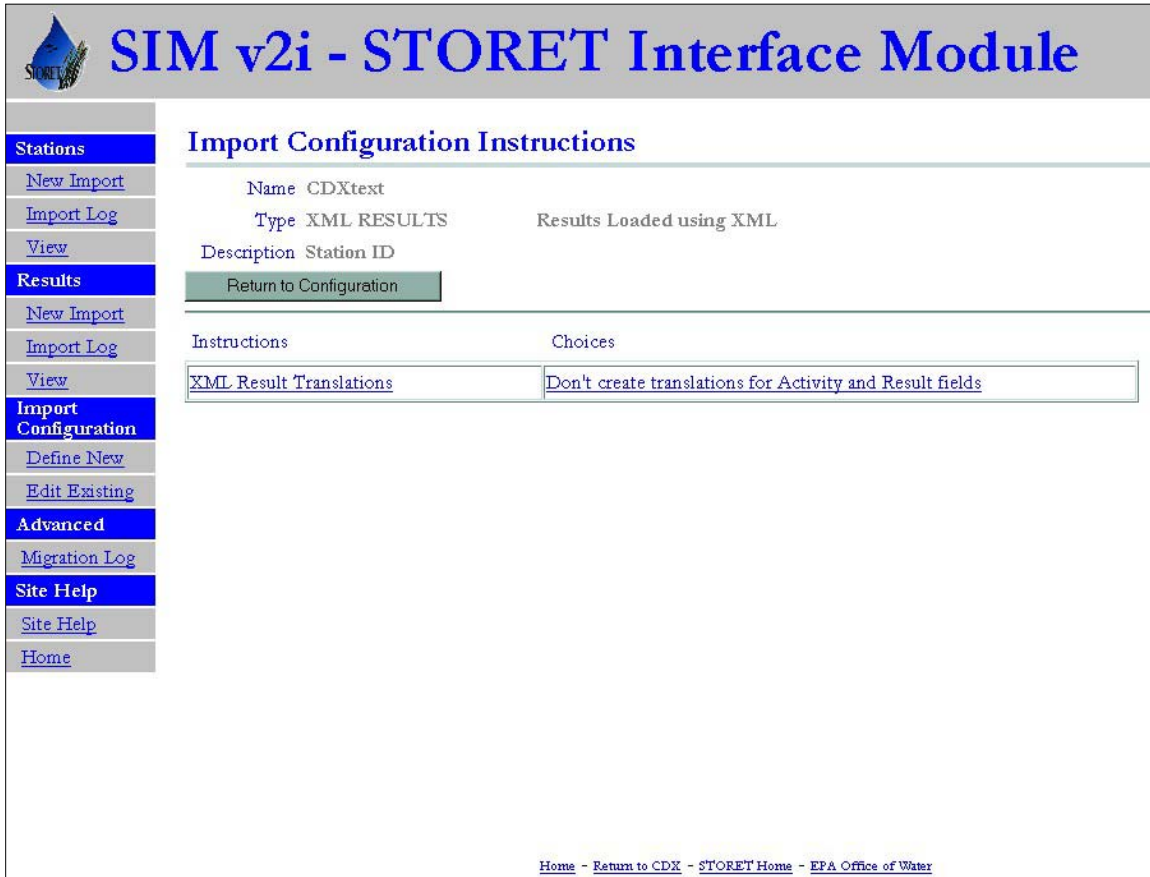
Translations for Station ID

Code

Translate To

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

11. Click **Return to Configuration** and then **Set Instructions** on the Import Configuration menu.



The screenshot displays the 'SIM v2i - STORET Interface Module' web application. On the left is a vertical navigation menu with the following items: 'Stations' (highlighted), 'New Import', 'Import Log', 'View', 'Results' (highlighted), 'New Import', 'Import Log', 'View', 'Import Configuration' (highlighted), 'Define New', 'Edit Existing', 'Advanced' (highlighted), 'Migration Log', 'Site Help' (highlighted), 'Site Help', and 'Home'. The main content area is titled 'Import Configuration Instructions'. It shows a configuration for 'Name CDXtext', 'Type XML RESULTS', and 'Results Loaded using XML'. Below this is a 'Description Station ID' field and a 'Return to Configuration' button. A table with two columns, 'Instructions' and 'Choices', contains one row: 'XML Result Translations' and 'Don't create translations for Activity and Result fields'. At the bottom right, there is a breadcrumb trail: 'Home - Return to CDX - STORET Home - EPA Office of Water'.

12. You can use this menu to review translations and establish general import instructions. To change an instruction, click the name of the instruction. Press the **Back** button if you want to return to the main Import Configuration screen.

Summary

The purpose of an import configuration is to set up a pattern to translate your data file into STORET using SIM. SIM import configurations can help you set up the order of fields, format data, and perform simple data translations. Ideally, you will set up a few configurations that you will use each time future data are imported to STORET.

In Lesson I, Defining an Import Configuration, you learned how to

- Define a new import configuration
- Save a new import configuration
- Use translations to change values while a file is being imported.

Lesson II. Using SIM to Migrate Data to STORET

This lesson describes how to

- Import a file into SIM so that it can be validated against the STORET requirements
- Migrate data that pass validation into STORET.

1. Use the sidebar to select **New Import** under “Stations.”
2. You must first select an existing import configuration. Click the drop-down box next to “Import Configuration” to see a list of import configurations that have been created in SIM. You can review the configuration details by clicking the **Edit Existing Import Configuration** button. In addition, you can create a new configuration by selecting **Define New Configuration**.

Select **DEMOTEST-WEBSIM Example-Ocean Station** from the drop-down box beside “Import Configuration.”

3. Then, select an appropriate text file name from the drop-down list beside “Import Configuration.”

Select **WEBSIM Example Ocean.txt**.

Click the **Import File to SIM** button.

SIM v2i - STORET Interface Module

Stations

- New Import
- Import Log
- View

Results

- New Import
- Import Log
- View

Import Configuration

- Define New
- Edit Existing

Advanced

- Migration Log
- Site Help
- Site Help
- Home

Import Stations

Import Configuration: DEMOTEST-WEBSIM Example - Ocean Station

Text File Name: WEBSIM Example - Ocean.txt

[Define New Configuration](#)

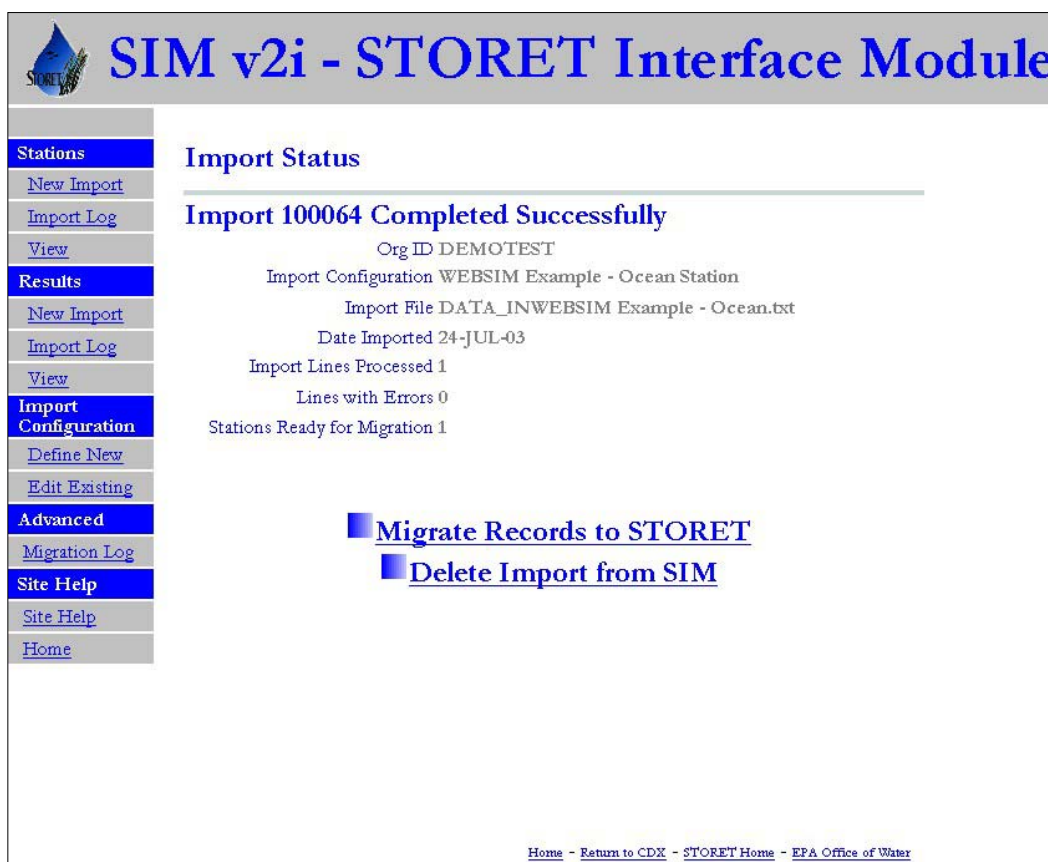
[Edit Existing Configuration](#)

[Import File to SIM](#)

Home - Return to CDX - STORET Home - EPA Office of Water

If you are importing an XML file, be sure to choose an XML import configuration.

4. SIM checks the file for errors that would prevent the data from being loaded to STORET. From the Import Status menu, you can
 - Review the number of records that that SIM imported, the number of those records that had errors, and the number of those records that are ready to be migrated to STORET
 - Migrate records to STORET
 - Delete an import from SIM. All data remain in SIM until the import is deleted.
Note: You should delete your imports once you are satisfied that your data have been accurately loaded to STORET.
5. Click **Migrate Records to STORET** and migrate the data you imported to STORET.



The screenshot displays the 'SIM v2i - STORET Interface Module' web application. On the left is a vertical sidebar with navigation links: Stations (New Import, Import Log, View), Results (New Import, Import Log, View), Import Configuration (Define New, Edit Existing), Advanced (Migration Log), Site Help (Site Help, Home), and Home. The main content area is titled 'Import Status' and shows a successful import for 'Import 100064'. It lists details: Org ID DEMOTEST, Import Configuration WEBSIM Example - Ocean Station, Import File DATA_INWEBSIM Example - Ocean.txt, Date Imported 24-JUL-03, Import Lines Processed 1, Lines with Errors 0, and Stations Ready for Migration 1. Below this information are two buttons: 'Migrate Records to STORET' and 'Delete Import from SIM'. At the bottom of the page, a footer link reads 'Home - Return to CDX - STORET Home - EPA Office of Water'.

Note: If your import is not successful using this example, it may be because others have already used the Ocean Station example for DEMOTEST and forgot to delete the import. Click the **View Import Errors** link. A table of import errors will appear. Clicking the **Status** button for each row will allow you to delete that import. After no imports remain, you can return to the Import Stations dialog by using the sidebar to navigate to “New Import” under “Stations” and begin the import again.

Summary

In Lesson II, using SIM to Migrate Data to STORET, you learned how to

- Import files to SIM using a predefined import configuration and text file
- Migrate data into STORET.

Lesson III. Advanced Functions

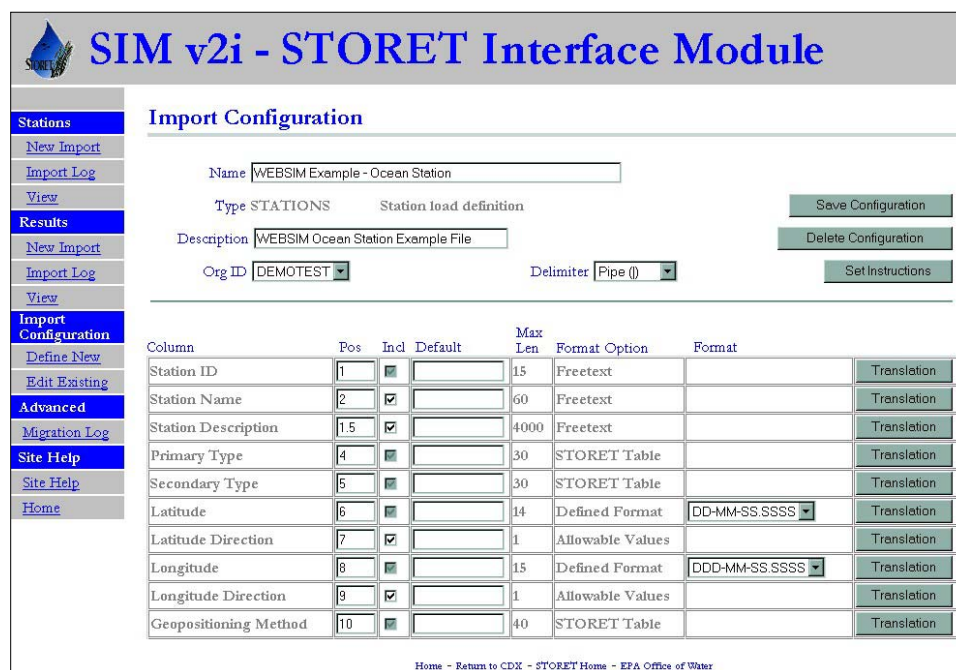
This lesson explains how to

- Reorder field positions in an import configuration
- View the status of import files brought into SIM but not migrated or deleted
- Remove (undo) a migration of data from STORET
- Generate an error report to print or save
- View data that have been imported to SIM
- Test and improve system performance.

Reorder field positions in an import configuration

You can use the Import Configuration menu to reorder field or column positions.

1. From the sidebar, click **Edit Existing** under “Import Configuration.” Click the **Edit** button beside the configuration you want to edit.
2. Suppose “Station Description” needs to be in the second position instead of the third. You can change the position number from 3 to a number between 1 and 2 (such as 1.5) and click **Save Configuration** to reorder the columns.



SIM v2i - STORET Interface Module

Import Configuration

Name:

Type: Station load definition

Description:

Org ID: Delimiter:

Column	Pos	Incl	Default	Max Len	Format Option	Format	Translation
Station ID	1	<input checked="" type="checkbox"/>		15	Freertext		<input type="button" value="Translation"/>
Station Name	2	<input checked="" type="checkbox"/>		60	Freertext		<input type="button" value="Translation"/>
Station Description	1.5	<input checked="" type="checkbox"/>		4000	Freertext		<input type="button" value="Translation"/>
Primary Type	4	<input checked="" type="checkbox"/>		30	STORET Table		<input type="button" value="Translation"/>
Secondary Type	5	<input checked="" type="checkbox"/>		30	STORET Table		<input type="button" value="Translation"/>
Latitude	6	<input checked="" type="checkbox"/>		14	Defined Format	DD-MM-SS.SSSS	<input type="button" value="Translation"/>
Latitude Direction	7	<input checked="" type="checkbox"/>		1	Allowable Values		<input type="button" value="Translation"/>
Longitude	8	<input checked="" type="checkbox"/>		15	Defined Format	DDD-MM-SS.SSSS	<input type="button" value="Translation"/>
Longitude Direction	9	<input checked="" type="checkbox"/>		1	Allowable Values		<input type="button" value="Translation"/>
Geopositioning Method	10	<input checked="" type="checkbox"/>		40	STORET Table		<input type="button" value="Translation"/>

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

View the status of an import in SIM that was not migrated or deleted

In some cases, you may have imported files to SIM but did not migrate the data to STORET. This may have occurred because you had to stop your session or wanted to review a file. This section helps you review previous imports to determine their status. It is important to remember to delete imports after migration.

1. You can access two categories of imports from the SIM main screen: Stations and Results. To review the status of the import that was performed in Lesson II, click **Import** under “Stations” on the sidebar menu.

SIM v2i - STORET Interface Module

Stations

- [New Import](#)
- [Import Log](#)
- [View](#)

Results

- [New Import](#)
- [Import Log](#)
- [View](#)

Import Configuration

- [Define New](#)
- [Edit Existing](#)

Advanced

- [Migration Log](#)

Site Help

- [Site Help](#)
- [Home](#)

New Import

Select this option to complete the following actions:

- 1) Configure the system to accept a new file for import.
- 2) Modify an existing import configuration.
- 3) Import a file using an existing configuration.

NOTE: If you are a new user of SIM, you should select this option to get started.

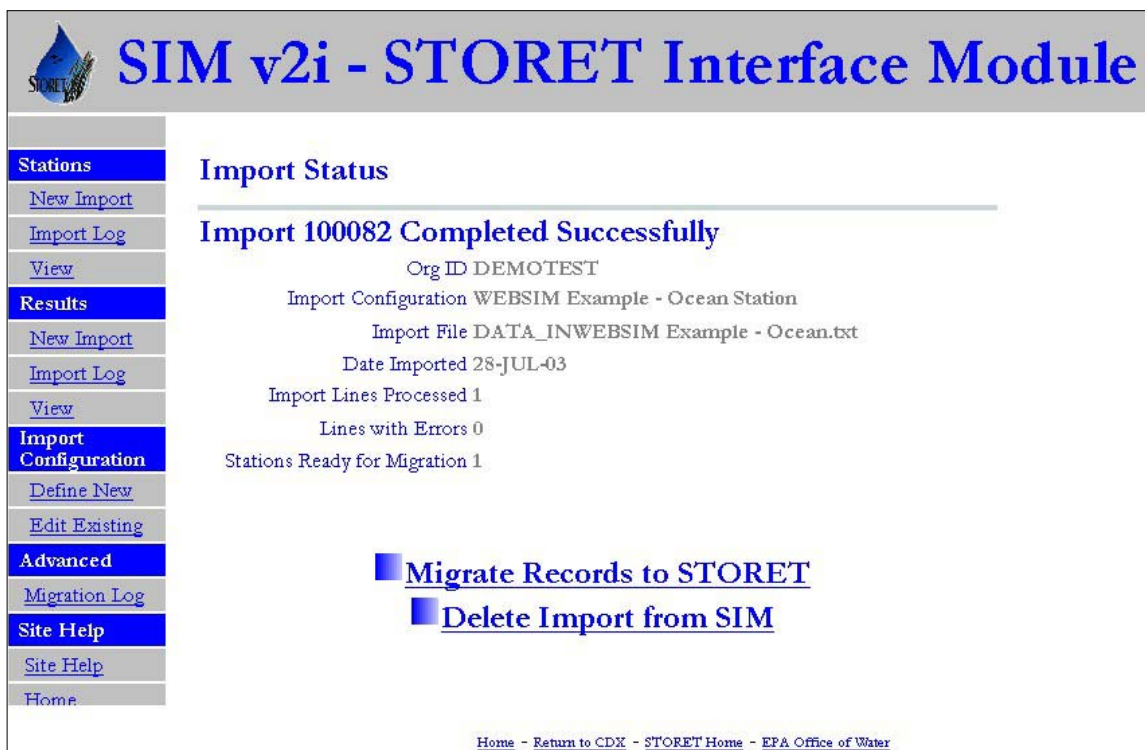
Existing Import

Select this option if you wish to complete any of the following actions:

- 1) View the import log for a file previously loaded into SIM.
- 2) Migrate a file from SIM to STORET.
- 3) Delete an import from SIM.

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

2. Click **Status** at the end of the row that represents the relevant import. You will return to the Import Status menu that you saw in step 3 of Lesson II.



The screenshot displays the 'SIM v2i - STORET Interface Module' web application. On the left is a vertical navigation menu with categories: Stations, Results, Import Configuration, Advanced, and Site Help. The 'Import Status' page is active, showing details for 'Import 100082 Completed Successfully'. The details include: Org ID DEMOTEST, Import Configuration WEBSIM Example - Ocean Station, Import File DATA_INWEBSIM Example - Ocean.txt, Date Imported 28-JUL-03, Import Lines Processed 1, Lines with Errors 0, and Stations Ready for Migration 1. At the bottom of the main content area are two links: 'Migrate Records to STORET' and 'Delete Import from SIM'. A footer at the very bottom provides navigation links: Home - Return to CDX - STORET Home - EPA Office of Water.

SIM v2i - STORET Interface Module

Stations
[New Import](#)
[Import Log](#)
[View](#)

Results
[New Import](#)
[Import Log](#)
[View](#)

Import Configuration
[Define New](#)
[Edit Existing](#)

Advanced
[Migration Log](#)

Site Help
[Site Help](#)
[Home](#)

Import Status

Import 100082 Completed Successfully

Org ID DEMOTEST
Import Configuration WEBSIM Example - Ocean Station
Import File DATA_INWEBSIM Example - Ocean.txt
Date Imported 28-JUL-03
Import Lines Processed 1
Lines with Errors 0
Stations Ready for Migration 1

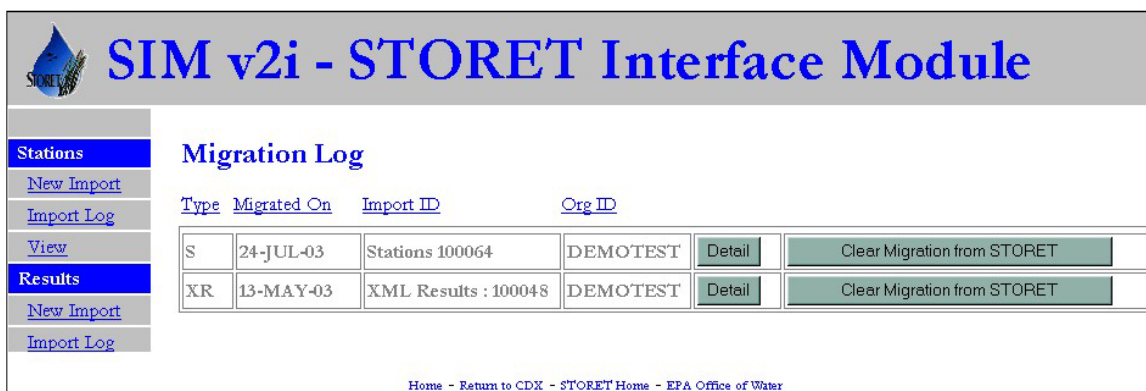
[Migrate Records to STORET](#)
[Delete Import from SIM](#)

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

Remove a migration of data from STORET

If you migrate a file to STORET and later determine you do not want it in STORET, you can remove that data from STORET. By clearing a migration, you essentially delete the data from STORET.

1. On the sidebar, click **Migration Log** under “Advanced.”
2. Click the appropriate **Clear Migration from STORET** button.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

Migration Log

Type	Migrated On	Import ID	Org ID		
S	24-JUL-03	Stations 100064	DEMOTEST	Detail	Clear Migration from STORET
XR	13-MAY-03	XML Results : 100048	DEMOTEST	Detail	Clear Migration from STORET

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

Note: SIM cannot undo a migration once the import has been deleted from SIM.

Generate an error report file to print or save

If your file is imported to SIM with errors, it is important to fix the errors and reimport the file to SIM. Reviewing an error report will help you determine which fields need to be fixed and why.

1. Click **New Import** under “Stations” on the sidebar menu.

SIM v2i - STORET Interface Module

Stations
[New Import](#)
[Import Log](#)
[View](#)

Results
[New Import](#)
[Import Log](#)
[View](#)

Import Configuration
[Define New](#)
[Edit Existing](#)

Advanced

Import Stations

Import Configuration

Text File Name

[Define New Configuration](#)

[Edit Existing Configuration](#)

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

- In order to generate an import with errors, import the same file that you imported in Lesson I.

Select **DEMOTEST-WEBSIM Example-Ocean Station**.

Select **WEBSIM Example Ocean.txt**.

Click **Import File to SIM**.

SIM v2i - STORET Interface Module

Stations

- [New Import](#)
- [Import Log](#)
- [View](#)

Results

- [New Import](#)
- [Import Log](#)
- [View](#)

Import Configuration

- [Define New](#)
- [Edit Existing](#)

Advanced

- [Migration Log](#)

Site Help

Import Status

Import 100069 Completed With Errors

Org ID DEMOTEST

Import Configuration WEBSIM Example - Ocean Station

Import File DATA_INWEBSIM Example - Ocean.txt

Date Imported 24-JUL-03

Import Lines Processed 1

Lines with Errors 1

Stations Ready for Migration 0

[View Import Errors](#)


[Delete Import from SIM](#)

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

Note: If there are any errors in your file, you cannot migrate any records to STORET. In addition, if you import a file with errors to SIM, make sure to delete the import file from SIM before you import a new file. If you do not delete the import file with errors, SIM will automatically delete it when you import a new file.

- Click **Import Log** under “Stations” on the sidebar menu.

- Click **Detail** from the import with errors (in this case, the second import).



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)


[Home](#)

Stations Import Log

Import ID	Import Type	Import File	Imported On	Migrated On	Number Imported	Rows Ready	Rows with Errors		
100064	S	DATA_INWEBSIM Example - Ocean.txt	24-JUL-03	-	1	1	0	Status	Detail
100065	S	DATA_INWEBSIM Example - Ocean.txt	24-JUL-03	-	1	0	1	Status	Detail

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

- A report of errors that occurred during import is displayed.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)

[Home](#)

Import Errors

Import ID 100065 Date Imported 24-JUL-03

Import File DATA_INWEBSIM
Example - Ocean.txt Imported By AAA [Suppress Warnings](#)


Description

Start at 11:00
Line 1 - Station SIM-OCN-1 already exists in SIM.
1 lines processed / stations loaded
Finished at 11:00

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

View data that have been imported to SIM

1. To view data that are in SIM, use the View capability under the Stations and Results menus. Click **View** under “Stations” from the sidebar.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)


[Home](#)

Station List

<u>Station ID</u>	<u>Station Name</u>	<u>Primary Type</u>	<u>Status</u>	
CBC-005	Nanticoke River	River/Stream	U	Detail
CBC-013	Potomac River, Coltons Point	River/Stream	U	Detail
CBC-022	Wicomico River Mouth	Estuary	U	Detail
SIM-OCN-1	Example Ocean Station	Ocean	A	Detail
SIM-OCN-1	Example Ocean Station	Ocean	N	Detail

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

2. Click **Detail** after an individual record to recall and view the data.



SIM v2i - STORET Interface Module

Stations

[New Import](#)

[Import Log](#)

[View](#)

Results

[New Import](#)

[Import Log](#)

[View](#)

Import Configuration

[Define New](#)

[Edit Existing](#)

Advanced

[Migration Log](#)

Site Help

[Site Help](#)

[Home](#)

Station Detail

Station ID SIM-OCN-1

Primary Type Ocean

Station Name Example Ocean Station

Station Desc Just a fake Ocean Station to demonstrate SIM's station data migration capabilities.

Import Status A

Secondary Type None

Location

State TEXAS

County WALLER

	Deg	Min	Sec	Dec.Deg	Dec.Min	Dir	
Latitude	30	2	1.1	30.0336388	2.0183	N	Geopos Method 013
Longitude	95	48	40.9	-95.811361	48.6817	W	Geopos Datum NAD83

Elevation 2

Elevation Method 009

Elevation Units ft

Elevation Datum NAVD88

View Warnings

Estuary

Great Lake

Ocean

[Home](#) - [Return to CDX](#) - [STORET Home](#) - [EPA Office of Water](#)

Test and improve system performance

- To ensure that the system runs smoothly and will not produce chronic errors, you may want to load a small sample of your data first to test for problems. This may help you avoid errors in multiple records due to an incorrect date format (or other minor error).
- Warnings slow down the import. If you limit the number of warnings that you would receive during an import (e.g., latitude direction), then the overall speed of the import will improve.

Appendix A.

Listing of Available STORET Data Elements for Each File Type

This appendix lists data elements that you can enter to describe stations, activities, and results. The tables indicate which elements are required and whether you can enter specific values for each element. These tables may be useful if you are importing flat files to SIM.

For XML import files, review the example schema on your MyCDX page to determine how to set up your XML schema. From the MyCDX page, click **eBEACHES: Monitoring**. Next, choose item 2, **Prepare your data**, to see the example.

Table A-1. Station Descriptions

Data Element	Required	Allowed Values
Station ID	Yes	
Station Name	Yes	
Primary Type	Yes	Yes
Secondary Type	Yes	Yes
Station Description		
Latitude	Yes	
Latitude Direction	Defaults to "N"	Yes
Longitude	Yes	
Longitude Direction	Defaults to "W"	Yes
Geopositioning Datum	Yes	Yes
Geopositioning Method	Yes	Yes
Scale	Conditional	
State	Yes	
County	Yes	
Elevation		
Elevation Units	Conditional	Yes
Elevation Method	Conditional	
Elevation Datum	Conditional	
Ocean Name	Conditional	Yes
Shore Relation	Conditional	Yes
Additional Ocean Name		
Primary Estuary	Conditional	
Secondary Estuary		
Other Estuary		
Great Lake	Conditional	Yes
Additional Great Lake Name		

Table A-2. Activities and Results

Data Element	Required	Allowed Values	Multiple Allowed
Trip ID	Yes	Must Exist in STORET	
Trip Start Date			
Trip Stop Date			
Trip Name			
Station ID	Yes	Must Exist in STORET	
Additional Location Information			
Station Visit Number	Yes		
Station Visit Arrival Date			
Visit Comments			
Project ID	Yes	Must Exist in STORET	Yes. Separate with “\”
Activity ID	Yes		
Medium	Yes	Yes	
Activity Type	Yes	Yes	
Activity Category	Conditional	Yes	
QC Indicator		Yes	
Sample Matrix		Yes	
Replicate Number	Conditional		
Activity Start Date	Yes		
Activity Start Time			
Activity Start Time Zone	Conditional	Yes	
Activity End Date			
Activity End Time			
Activity End Time Zone	Conditional	Yes	
Depth to Activity			
Depth to Activity Units	Conditional	Yes	
Relative Depth		Yes	
Depth Measured From			
Activity Comments			
Sample Collection Procedure ID	Conditional	Must Exist in STORET	
Gear ID	Conditional	Yes	
Gear Configuration ID		Must Exist in STORET	
Gear Deployment Comments			
Sample Preservation, Transport & Storage ID		Must Exist in STORET	
Sample Transport and Storage Comments			
Detection Condition		Yes	
Characteristic Group ID	Conditional	Must Exist in STORET	
Characteristic Row ID	Conditional	Must Exist in STORET	
Characteristic Name	Conditional	Yes	
Result Value	Conditional	Yes*	
Result Value Units	Conditional	Yes	
Result Status	Defaults to “F”	Yes	
Sample Fraction	Conditional	Yes	
Statistic Type		Yes	
Value Type	Defaults to “Actual”	Yes	
Duration Basis		Yes	
Temperature Basis		Yes	
Weight basis		Yes	
Result Comment			
Laboratory ID		Must Exist in STORET	
Field/Lab Procedure	Conditional	Must Exist in STORET	
Field/Lab Procedure Source	Conditional	Yes	
Laboratory Certified		Yes	
Laboratory Batch ID			
Analysis Date			
Analysis Time			
Analysis Time Zone	Conditional	Yes	
Detection Limit			
Detection Limit Unit	Conditional	Yes	
Detection Limit Comment			